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1 [Open-loop power control performance in DS-CDMA networks with frequency selective fading and non-stationary base stations](#)

A. Chockalingam, Laurence B. Milstein

March 1998 *Wireless Networks*, Volume 4 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(340.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 49, Citation Count: 1

In this paper, we study the performance of a simple and easy-to-implement distributed power control strategy applicable to direct sequence code division multiple access (DS-CDMA) networks. The scheme makes use of the received power measurements made ...

2 [Characterization of user mobility in low earth orbit mobile satellite systems](#)

Enrico Del Re, Romano Fantacci, Giovanni Giambene

May 2000 *Wireless Networks*, Volume 6 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(422.15 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 37, Citation Count: 1

Future mobile communication networks will provide a global coverage by means of constellations with nongeosynchronous satellites. Multi‐spot‐beam antennas on satellites will allow a cellular coverage all over the Earth. Due to the unstationarity ...

3 [A CDMA-based radio interface for third generation mobile systems](#)

Sergio Barberis, Ermanno Berruto

June 1997 *Mobile Networks and Applications*, Volume 2 Issue 1

Publisher: ACM

Full text available: [pdf\(257.24 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 67, Citation Count: 0

This paper deals with the use of a CDMA-based radio interface in third generation mobile systems (Universal Mobile Telecommunications System—UMTS, and Future Public Land Mobile Telecommunications System—FPLMTS). The paper is not intended ...

4 [A framework for the transmission of streaming media to mobile devices](#)

Kevin Curran, Gerard Parr

January 2002 International Journal of Network Management, Volume 12 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(302.57 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 83, Citation Count: 0

One interesting problem is the delay imposed upon mobile receivers when switching between wireless cells. We provide a solution to this in the form of an extension of Mobile IP's handoff algorithm. Our solution involves the exploitation of mobility prediction ...

5 [Multimodal system processing in mobile environments](#)

Sharon Oviatt

November 2000 UI ST '00: Proceedings of the 13th annual ACM symposium on User interface software and technology

Publisher: ACM

Full text available:  pdf(579.32 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 82, Citation Count: 16


Keywords: mobile interface design, multimodal architecture, mutual disambiguation, recognition errors, robust performance, speech and pen input

6 [Provision of multimedia services over Europe by means of geostationary satellites with multispot coverage using small terminals](#)

Michele Luglio, Mauro Marinelli, Aldo Paraboni

February 1998 Wireless Networks, Volume 4 Issue 2

Publisher: Kluwer Academic Publishers

Full text available:  pdf(2.09 MB) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 35, Citation Count: 1

The possibility to provide multimedia services over a wide area using small mobile terminals represents a challenging task. This task is even more challenging especially if high frequency bands are used and high service availability is required, considering ...

7 [Robotics-based location sensing using wireless ethernet](#)

Andrew M. Ladd, Kostas E. Bekris, Algis Rudys, Guillaume Marceau, Lydia E. Kavrak, Dan S. Wallach

September 2002 MobiCom '02: Proceedings of the 8th annual international conference on Mobile computing and networking

Publisher: ACM

Additional Information:

Full text available:  pdf(235.70 KB)

[full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 133, Citation Count: 25

A key subproblem in the construction of location-aware systems is the determination of the position of a mobile device. This paper describes the design, implementation and analysis of a system for determining position inside a building from measured ...

Keywords: 802.11, localization, mobile systems, probabilistic analysis, wireless networks


8 [The Lighthouse Location System for Smart Dust](#)



Kay Römer

May 2003 MobiSys '03: Proceedings of the 1st international conference on Mobile systems, applications and services

Publisher: ACM

Full text available:  pdf(2.00 MB)

Additional Information: [full citation](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 95, Citation Count: 2


9 [Using proxy cache relocation to accelerate Web browsing in wireless/mobile communications](#)



Stathes Hadjiliefthymiades, Lazaros Merakos

April 2001 WWW '01: Proceedings of the 10th international conference on World Wide Web

Publisher: ACM

Full text available:  pdf(321.90 KB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 53, Citation Count: 4

Keywords: W4, cache relocation, learning automaton, mobile computing, path prediction, proxy cache


10 [Mobility modelling and trajectory prediction for cellular networks with mobile base stations](#)



Pubudu N. Pathirana, Andrey V. Savkin, Sanjay Jha

June 2003 MobiHoc '03: Proceedings of the 4th ACM international symposium on Mobile ad hoc networking & computing

Publisher: ACM

Full text available:  pdf(514.67 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 124, Citation Count: 5

This paper provides mobility estimation and prediction for a variant of GSM network which resembles an adhoc wireless mobile network where base stations and users are both mobile. We propose using Robust Extended Kalman Filter (REKF) as a location heading ...

11 [Design and analysis of low-power access protocols for wireless and mobile ATM networks](#)

Krishna M. Sivalingam, Jyh-Cheng Chen, Prathima Agrawal, Mani B. Srivastava
January 2000 *Wireless Networks*, Volume 6 Issue 1
Publisher: Kluwer Academic Publishers

Full text available:  pdf(233.13 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 52, Citation Count: 10

This paper describes the design and analysis of a low‐power medium access control ∥MAC∥ protocol for wireless/mobile ATM networks. The protocol – denoted EC‐MAC ∥energy conserving medium access control∥ – is ...

12 Satellite-PCS channel simulation in mobile user environments using photogrammetry and Markov chains

Hsin-Piao Lin, Riza Akturan, Wolfhard J. Vogel
September 1997 *Wireless Networks*, Volume 3 Issue 4
Publisher: Kluwer Academic Publishers


Full text available:  pdf(970.24 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 22, Citation Count: 0

In this paper, we present a system that models the land-mobile satellite communication channel with a Markov chain approach supported by images of the mobile Earth station's (MES) environment. Our method employs a video camera with a fish-eye lens capturing ...

13 Biological aspects of mobile communication fields

James C. Lin
November 1997 *Wireless Networks*, Volume 3 Issue 6
Publisher: Kluwer Academic Publishers


Full text available:  pdf(392.58 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 100, Citation Count: 3

Our knowledge on the biological effects of RF radiation has been increasing for many decades. It has become a focus of attention because of the accelerated use of RF radiation for wireless communication over the past few years. It is fairly well established ...

14 Retransmission control and fairness issue in mobile slotted ALOHA networks with fading and near-far effect

Te-Kai Liu, John A. Silvester, Andreas Polydoros
June 1997 *Mobile Networks and Applications*, Volume 2 Issue 1
Publisher: Kluwer Academic Publishers

Full text available:  pdf(393.02 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 25, Citation Count: 1

The effects of different retransmission control policies on the performance of a mobile data system employing the slotted ALOHA protocol are investigated, with the emphasis on the unfairness between close-in and distant users due to the near-far effect. ...

15 [The anatomy of a context-aware application](#)

Andy Harter, Andy Hopper, Pete Steggles, Andy Ward, Paul Webster

March 2002 *Wireless Networks*, Volume 8 Issue 2/3

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(317.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 92, Citation Count: 6

We describe a sensor-driven, or sentient, platform for context-aware computing that enables applications to follow mobile users as they move around a building. The platform is particularly suitable for richly equipped, networked environments. The only ...

Keywords: CORBA, HCI, context-aware computing, location sensors, middleware, mobile computing, resource monitoring, sentient computing, spatial indexing, visualisation

16 [Proxies + path prediction: improving Web service provision in wireless-mobile communications](#)

Stathes Hadjiefthymiades, Lazaros Merakos

August 2003 *Mobile Networks and Applications*, Volume 8 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(255.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 59, Citation Count: 0

Mobile computing is considered of major importance to the computing industry for the forthcoming years due to the progress in the wireless communications area. A proxy-based architecture for accelerating Web browsing in wireless customer premises networks ...

Keywords: cache relocation, caching proxy, mobile computing, path prediction algorithm

17 [Using channel state dependent packet scheduling to improve TCP throughput over wireless LANs](#)

Pravin Bhagwat, Partha Bhattacharya, Arvind Krishma, Satish K. Tripathi

March 1997 *Wireless Networks*, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(541.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 55, Citation Count: 18


In recent years, a variety of mobile computers equipped with wireless communication devices have become popular. These computers use applications and protocols, originally developed for wired desktop hosts, to communicate over wireless channels. Unlike ...

18 [The evolution of perspective view in WalkMap](#)

Riku Suomela, Kimmo Roimela, Juha Lehtikainen

October 2003 *Personal and Ubiquitous Computing*, Volume 7 Issue 5

Publisher: Springer-Verlag

Full text available:  pdf(485.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 68, Citation Count: 1

A wearable computer is a potential platform for map applications: it is mobile in nature, and is often equipped with a head-worn display capable of displaying maps of the surrounding area in graphical form. In this paper, we present a map application, ...

Keywords: Map, Navigation, Perspective, Three-dimensional, User study, Wearable computing


19 [A transmission control scheme for media access in sensor networks](#)



Alec Woo, David E. Culler

July 2001 MobiCom '01: Proceedings of the 7th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available:  pdf(460.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 445, Citation Count: 85


We study the problem of media access control in the novel regime of sensor networks, where unique application behavior and tight constraints in computation power, storage, energy resources, and radio technology have shaped this design space to be very ...

20 [New call blocking versus handoff blocking in cellular networks](#)

Moshe Sidi, David Starobinski

March 1997 Wireless Networks, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  pdf(363.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 34, Citation Count: 7

In cellular networks, blocking occurs when a base station has no free channel to allocate to a mobile user. One distinguishes between two kinds of blocking, the first is called new call blocking and refers to blocking of new calls, the second is called ...

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Result page: 1 [2](#) [3](#) [next](#) [>>](#)

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